

## CLAIMS

What is claimed is:

- 1           1.       A hand-held self-dispensing applicator device comprising:  
2           a housing having an outer surface and an internal reservoir for holding dispensable  
3           product, wherein a plurality of pores fluidly couple the internal reservoir  
4           and the outer surface of the housing;  
5           a bladder within the internal reservoir; and  
6           a pressure inducing mechanism operatively coupled to the bladder, and adapted to  
7           increase pressure within the bladder so as to provide a positive pressure in  
8           the internal reservoir, thereby causing the product to flow through the  
9           plurality of pores to the outer surface of the housing.
- 1           2.       The device of claim 1 further comprising:  
2           a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3           provide a soft and resilient application surface.
- 1           3.       The device of claim 1 further comprising:  
2           a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3           control the flow of the product through the plurality of pores to the outer  
4           surface of the housing.
- 1           4.       The device of claim 3 wherein the housing jacket includes a number of flow  
2           holes that are substantially offset from the plurality of pores.
- 1           5.       The device of claim 1 further comprising:  
2           a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3           operate in conjunction with the positive pressure in the internal reservoir to  
4           control the flow of the product through the plurality of pores, as well as to  
5           inhibit flow of secondary fluids into the internal reservoir.
- 1           6.       The device of claim 1 further comprising:

2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with physical attributes of the product to control the  
4 flow of the product through the plurality of pores.

1 7. The device of claim 1 wherein the pressure inducing mechanism includes at  
2 least one of a pump chamber and plunger arrangement, a one-way valve scheme, a seal and  
3 retention scheme, and an external charging station.

1 8. The device of claim 1 where the pressure inducing mechanism includes a  
2 pressurized container that is forced into releasing its contents at least partially thereby  
3 increasing the pressure within the bladder.

1 9. The device of claim 1 where the pressure inducing mechanism is adapted to  
2 exploit by-products of a chemical reaction to increase the pressure within the bladder.

1 10. The device of claim 1 where the pressure inducing mechanism is activated  
2 by a user.

1 11. A hand-held self-dispensing applicator device, comprising:  
2 a housing having an outer surface and an internal reservoir for holding dispensable  
3 product, wherein a plurality of pores fluidly couple the internal reservoir  
4 and the outer surface of the housing; and  
5 a pressure inducing mechanism adapted to provide a positive pressure in the  
6 internal reservoir which causes the product in the internal reservoir to flow  
7 through the plurality of pores to the outer surface of the housing.

1 12. The device of claim 11 wherein the pressure inducing mechanism includes  
2 at least one of a pump chamber and plunger arrangement, a one-way valve scheme, a seal  
3 and retention scheme, and an external charging station.

1 13. The device of claim 11 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 control the flow of the product through the plurality of pores to the outer  
4 surface of the housing.

1           14.    The device of claim 13 wherein the housing jacket includes a number of  
2 flow holes that are substantially offset from the plurality of pores.

1           15.    The device of claim 11 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with the positive pressure in the internal reservoir to  
4 control the flow of the product through the plurality of pores.

1           16.    The device of claim 11 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with physical attributes of the product to control the  
4 flow of the product through the plurality of pores.

1           17.    The device of claim 11 where the pressure inducing mechanism is activated  
2 by a user.

1           18.    The device of claim 11 wherein the pressure inducing mechanism includes a  
2 pump chamber and plunger arrangement configured to operate in conjunction with a one-  
3 way flap valve.

1           19.    A hand-held self-dispensing applicator device, comprising:  
2 a housing having an outer surface, and an internal reservoir for holding dispensable  
3 product, wherein porous qualities of the housing fluidly couple the internal  
4 reservoir and the outer surface; and  
5 a bladder within the internal reservoir, configured to provide a positive pressure in  
6 the internal reservoir, which causes the product in the internal reservoir to  
7 flow to the outer surface of the housing.

1           20.    The device of claim 19 wherein the porous qualities of the housing are  
2 provided by a plurality of flow holes in the outer surface.

1           21.    A hand-held self-dispensing applicator device, comprising:

2 a housing having an outer surface, and an internal reservoir for holding dispensable  
3 product, wherein porous qualities of the housing fluidly couple the internal  
4 reservoir and the outer surface;

5 wherein the internal reservoir can be pressurized to provide a positive pressure in  
6 the internal reservoir that causes the product in the internal reservoir to  
7 continuously flow to the outer surface of the housing for a period of 10  
8 seconds or more.

1 22. The device of claim 21 wherein the porous qualities of the housing are  
2 provided by a plurality of flow holes in the outer surface.

1 23. The device of claim 21 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 control the flow of the product to the outer surface of the housing.

1 24. The device of claim 21 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 restrict the flow of the product to the outer surface of the housing.

1 25. The device of claim 21 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with the positive pressure in the internal reservoir to  
4 control the flow of the product to the outer surface of the housing, as well as  
5 to inhibit flow of secondary fluids into the internal reservoir.

1 26. The device of claim 21 further comprising:  
2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with physical attributes of the product to control the  
4 flow of the product to the outer surface of the housing.

1 27. A hand-held self-dispensing applicator device, comprising:

2 a housing having an outer surface and an internal reservoir for holding dispensable  
3 product, wherein a plurality of pores fluidly couple the internal reservoir  
4 and the outer surface; and

5 a pump chamber and plunger arrangement configured to operate in conjunction  
6 with a one-way valve to provide a positive pressure in the internal reservoir  
7 which causes the product in the internal reservoir to continuously flow  
8 through the plurality of pores to the outer surface of the housing for a period  
9 of 10 seconds or more.

1 28. The device of claim 27 further comprising:

2 a bladder within the internal reservoir and operatively coupled to the pump  
3 chamber, thereby enabling expansion of the bladder so as to provide the  
4 positive pressure in the internal reservoir.

1 29. The device of claim 27 further comprising:

2 a housing jacket disposed on the outer surface of the housing, the jacket adapted to  
3 operate in conjunction with the positive pressure in the internal reservoir to  
4 control the flow of the product through the plurality of pores, and to inhibit  
5 flow of secondary fluids into the internal reservoir.

1 30. The device of claim 29 wherein the housing jacket includes a number of  
2 flow holes that are substantially offset from the plurality of pores.